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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/577,292	05/23/2000	Alireza Abaye	11470BAUS01U	3517	
7590 01/28/2004			EXAMI	EXAMINER	
DOCKET CLERK			LY, ANH VU H		
P.O. DRAWER 800889 DALLAS, TX 75380			ART UNIT	PAPER NUMBER	
			2667	n	
			DATE MAILED: 01/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/577,292	ABAYE ET AL.				
		Examiner	Art Unit				
		Anh-Vu H Ly	2667				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reper poperiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) daywill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)	Responsive to communication(s) filed on	<u>_</u> :					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	4) Claim(s) <u>1-12,14-43 and 45-63</u> is/are pending in the application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-10,14-41 and 45-63</u> is/are rejected.						
7)🖂	☑ Claim(s) 11,12,42 and 43 is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
* 5 13)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list Acknowledgment is made of a claim for domest ince a specific reference was included in the fir 7 CFR 1.78. 1) The translation of the foreign language process that the company is made of a claim for domest deference was included in the first sentence of the company included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of the company is made of a claim for domest deference was included in the first sentence of th	ts have been received. Its have been received in Applicationity documents have been received u (PCT Rule 17.2(a)). It of the certified copies not received priority under 35 U.S.C. § 119(a) is sentence of the specification or covisional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)							
2) D Notic	te of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) the mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

1. This communication is in response to applicant's amendment filed October 27, 2003. The proposed amendment to the claims has been entered. Claims 1-12, 14-43 and 45-63 are currently pending.

Information Disclosure Statement

2. The information disclosure statement filed October 27, 2003 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10, 14-17, 19-41, 45-46, and 48-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheung et al (US Patent No. 6,515,964) in view of Chen et al (US Patent No. 6,487,170). Hereinafter, referred to as Cheung and Chen.

With respect to claims 1-2, 14-17, 31-33, 45-46, and 60-63, Cheung discloses in Fig. 2 a system for transporting voice signals over the packet network 140, wherein the admission control

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gateway 100 receives a call request, which including the caller's identification information and the callee's identification information (comprising an origination address for identifying an origination terminal and an identifier for identifying a destination terminal), from the first network 110 containing the call characteristic requirements (receiving a call request for establishing a call and capable of affecting a network resource, the call request defining a throughput requirement).

Cheung does not disclose transmitting a throughput measurement request, the throughput measurement request causing a trace packet to propagate between the origination terminal and the destination terminal; receiving a throughput measurement response in response to the transmitting of the throughput measurement request; transmitting a call admission response to the origination terminal when the throughput measurement response at least substantially matches the throughput requirement of the call request.

Chen discloses (col. 8, lines 47-37 and Fig. 4) a flow diagram illustrating high-level bandwidth reservation between the sender and the receiver including the exchanges of REQUEST message, ACCEPT message, and/or REJECT message.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the features of exchanging messages between the sender, intermediate nodes, and the receiver in Cheung's system, as suggested by Chen, to satisfy QoS of a requested call.

With respect to claims 3 and 34, Cheung discloses (col. 5, lines 3-12) that various call actions can be taken if the voice call can not be admitted to the packet switched network such as

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holding the voice call, sending the calling party a busy signal, providing the calling party the

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option of having the system call him or her back when the VoIP call can be admitted to the network, or rerouting the voice call over another network, such as a conventional circuit-

switched network (selecting one or more network resources is based on the call admission

response).

With respect to claims 4 and 35, Cheung discloses in Fig. 4, quality of service computer

320 for determining the network performance parameters (selecting one or more network

resources is determined by usage policy of a policy server).

With respect to claims 5 and 36, Cheung discloses (col. 4, lines 26-30) that call quality

requirements for the various performance parameters of the packet-switched network can be

established to enable a higher quality of service for certain calls (throughput requirement relates

to a perceptible quality of service).

With respect to claims 6 and 37, the limitation "throughput requirement is specified in a

packet header" is inherent to Cheung. Cheung discloses (col. 8, lines 36-37 and Fig. 4) that the

admission control gateway 300 receives the call from the initiator computer 310. From the

illustration shown in Fig. 4, the communicated messages between the gateway and the computer

must be in the form of packets and furthermore, each packet is known to comprise the header and

payload portion. Wherein, header portion is known for carrying controlled information.

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With respect to claims 7-9 and 38-40, Cheung discloses a method and apparatus for dynamically controlling the admission of calls to a network, wherein call requests received at the gateway are containing call characteristic requirements. Cheung does not disclose throughput requirement complies with either RFVP or Diffserv Protocol, or MPLS protocol. However, such protocols are known in the art for carrying the specified and/or requested parameters originated from the source and send along the path to the destination, including the intermediate nodes for setting up a connection with a guarantee quality of service. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of having the throughput requirement complies with such above protocols in Cheung's system to reserve network resources.

With respect to claims 10 and 41, Cheung discloses a method and apparatus for dynamically controlling the admission of calls to a network, wherein call requests received at the gateway are determined whether the call is admitted or rejected. Cheung does not disclose call request complies with SIP. However, SIP is known in the art for initiating and/or setting connections between two points in a network. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of sending call request in accordance to the Session Initiation Protocol in Cheung's system to set up a connection.

With respect to claims 19-21 and 48-50, Cheung discloses (col. 5, lines 3-12) that various call actions can be taken if the voice call can not be admitted to the packet switched network

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such as holding the voice call, sending the calling party a busy signal, providing the calling party the option of having the system call him or her back when the VoIP call can be admitted to the network, or rerouting the voice call over another network, such as a conventional circuit-switched network (selecting an alternative resource as the network resource when the throughput measurement does not substantially match the throughput requirement of the call request; wherein the alternative resource comprising a switched telephone network and further comprising a dedicated communications link interconnecting devices).

With respect to claims 22 and 51, Cheung discloses (col. 5, lines 3-12) that various call actions can be taken if the voice call can not be admitted to the packet switched network such as holding the voice call, sending the calling party a busy signal (transmitting an alternative resource call admission response when the throughput measurement does not substantially match the throughput requirement of the call request), providing the calling party the option of having the system call him or her back when the VoIP call can be admitted to the network, or rerouting the voice call over another network, such as a conventional circuit-switched network.

With respect to claims 23-25 and 52-54, Cheung discloses (col. 4, lines 14-17) that the state of a packet switched network can be indicated by a number of performance parameters, including total delay, mean and standard deviation for such delay, packet loss, error rate, etc ... (determining a condition of the network resource, wherein the determining including determining a delay in the throughput measurement in the network; wherein the determining including a percentage of packet loss in the network).

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With respect to claims 26 and 55, Cheung discloses (col. 4, lines 14-17) that the state of a packet switched network can be indicated by a number of performance parameters, including total delay, mean and standard deviation for such delay, packet loss, error rate, etc ... (determining an expected quality of service based on the determined condition of the network resource).

With respect to claims 27 and 56, Cheung discloses (col. 8, lines 7-12) a determination is made whether a call request is accepted or rejected (performing call admission control to accept or deny the call request).

With respect to claims 28 and 57, Cheung discloses (col. 8, lines 7-12) that the network characteristic parameters data are determined (wherein performing call admission control is based on usage of a link in the network).

With respect to claims 29 and 58, Cheung discloses in Fig. 2, a system for admitting call between a first telephone device 111 (first terminal), coupled to the first network 110, and a second telephone device 191 (second terminal), coupled to third network 190. Herein, telephone device 111 and first network are considered as first community, and telephone device 191 and third network are considered as second community. Wherein, first community and second community are connected via paths or links or channels of the IP network 140 (a link in the network for coupling the two communities).

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Cheung discloses (col. 4, lines 14-17) that the state of a packet switched network (policy of the links of the IP network) can be indicated by a number of performance parameters, including total delay, mean and standard deviation for such delay, packet loss, error rate, etc ... (wherein performing call admission control includes performing call admission control based on a policy for the link between the communities).

With respect to claims 30 and 59, the limitation "bypassing the call admission control within at least one community" is inherent to Cheung. Since only one telephone device shows Fig. 2 for the purpose of illustration, if another telephone device couples to the first network 110, then two telephone devices can communicate via the first network 110 without the intervention of the admission control gateway.

4. Claims 18 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheung and Chen and further in view of Vargo et al (US Patent No. 6,356,545). Hereinafter, referred to as Cheung, Chen, and Vargo.

With respect to claims 18 and 47, Cheung discloses a method and apparatus for dynamically controlling the admission of calls to a network, wherein call requests received at the gateway are determined whether the call is admitted or rejected. Cheung does not disclose selecting one or more sizes of a data packet as candidates for carrying audio data in the requested call. Vargo discloses in Fig. 3, an apparatus for managing calls in a system including an interface (NIC26) for receiving a call request to establish a call between two endpoints and a control unit (23 and 24) for processing the request and to control the selection of resource elements such as codec (col. 7, lines 27-35) or packet size (col. 7, lines 6-17). It would have

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been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of selecting one or more sizes of a data packet as candidates as specified in the requested call in Cheung's system, as suggested by Vargo, to accommodate quality of service of a call based on the usage or condition of the network.

Allowable Subject Matter

5. Claims 11-12 and 42-43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 1-12, 14-43 and 45-63 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 703-306-5675. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 703-305-4378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

avl

CHI PHAMI

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